

19.4: Discussion

Discussion (30 points)

Write a minimum one-page (12 font, single spaced) discussion on the experiment conducted this week. **The assignment will be graded on completeness, clarity of the explanations and the meaningful integration of the collected and calculated data.** Correct grammar and appropriate format for the chemical formulae and chemical reactions is expected. **You may use the outline included at the end of this document on how to build your essay to address each category.**

1. Define conservation of mass.
2. Give an argument based on your results for classifying the reaction that took place.
3. In your experiment, was conservation of mass observed?
4. Using pictures from your lab, explain any discrepancies observed between the mass of starting materials and end products.
5. Why do we rinse the beaker after transferring the solution into another beaker?
6. Describe the steps involved in filtration.
7. Why do you rinse the filter paper during filtration?
8. Why does the salt jump out of the beaker when the solution is evaporated?
9. Describe when filtration is best used.
10. Provide at least 2 additional balanced chemical equations for the same class of reaction as the reaction of calcium chloride with sodium carbonate.
11. Give at least two examples of how this class of reactions are present in your life.

Recommended discussion outline:

The concepts I used in this experiment were...

The most important aspect of this experiment was...

The purpose of the experiment was (Hint: it was not to determine the products of a reaction) ... By performing this experiment, I learned...

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